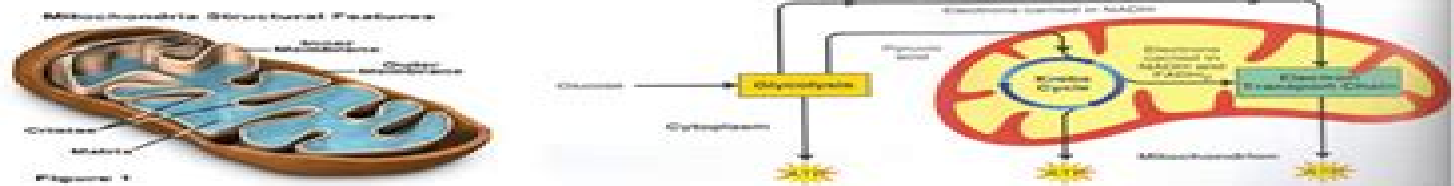


CHAPTER 9: CELLULAR RESPIRATION STUDY GUIDE

1. Draw and label the parts in a mitochondrion and show where the different reactions happen.



2. Write the chemical formula for cellular respiration in symbols and words.



Glucose (food) + oxygen = carbon dioxide + water + energy

- How does this equation compare to the equation for photosynthesis?
It is the opposite/reverse. The products and reactants are flipped.

3. Describe the steps of Glycolysis.

- 6 carbon glucose molecule is broken in half forming 2 - 3 carbon molecules known as pyruvic acid. This requires 2 ATP molecules of energy.
- In order to form pyruvic acid, 2 NADH are formed by accepting electrons, and 4 ATP molecules are formed in that process.

4. List the products of Glycolysis.

2 ATP net total

2 NADH

2 Pyruvic acid molecules

5. Describe the steps of Alcoholic fermentation.

- Glycolysis must occur first, producing 2ATP and 2 NADH.
- If no oxygen is present, it then goes into alcoholic fermentation.
- Pyruvic acid loses a Carbon to form carbon dioxide.
- NADH donates its electrons now creating a 2Carbon molecule known as ethyl alcohol.



Chapter 9 Cellular Respiration Study Guide Questions

Richard Bailey



Chapter 9 Cellular Respiration Study Guide Questions:

Decoding **Chapter 9 Cellular Respiration Study Guide Questions**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 9 Cellular Respiration Study Guide Questions**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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